

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLN. OF: MANSURIPUR et al.
SERIAL NO.: 10/600,935
FILED: June 20, 2003
FOR: Information Storage and Retrieval Device Using Macromolecules...
DOCKET: UA 02-023

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Dear Sir:

In connection with the above-entitled matter, Applicants hereby proffer U.S. Patent Office Form PTO-1449, including copies of the references listed therein. These references are discussed in the specification. The claims in the present application are believed to be patentably distinguished over these references.

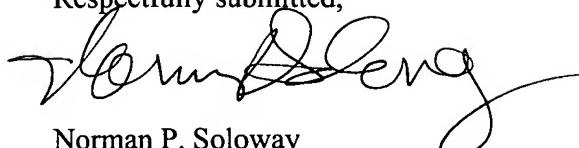
This Information Disclosure Statement is being made pursuant to the duty of disclosure imposed by law and formulated in 37 CFR 1.56(A). No representation is made that the information thus disclosed in fact constitutes prior art or that it is the closest prior art, inasmuch as 37 CFR 1.56(A) relies on a materiality concept which depends on subjectivity.

The enclosed Information Disclosure Statement is being submitted prior to issuance of the first action on the merits. Therefore, we believe there are no fees involved with this Information Disclosure Statement. In the event there are any fee deficiencies or additional fees are payable, please charge them (or credit any overpayment) to our Deposit Account No. 08-1391.

HAYES SOLOWAY P.C.
130 W. CUSHING ST.
TUCSON, AZ 85701
TEL. 520.882.7623
FAX. 520.882.7643

175 CANAL STREET
MANCHESTER, NH 03101
TEL. 603.668.1400
FAX. 603.668.8567

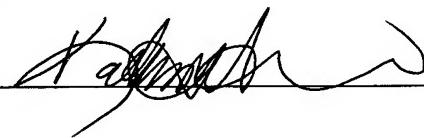
Respectfully submitted,



Norman P. Soloway
Attorney for Applicants
Reg. No. 24,315

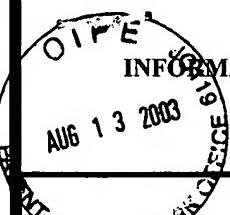
CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service as First Class Mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on August 11, 2003 at Tucson, Arizona.

By: 

HAYES SOLOWAY P.C.
130 W. CUSHING ST.
TUCSON, AZ 85701
TEL. 520.882.7623
FAX. 520.882.7643

—
175 CANAL STREET
MANCHESTER, NH 03101
TEL. 603.668.1400
FAX. 603.668.8567



INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

(Use several sheets if necessary)

Docket Number (Optional)

UA 02-023

Application Number

10/600,935

Applicant(s)

Filing Date

June 20, 2003

Group Art Unit

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

OTHER DOCUMENTS (*Including Author, Title, Date, Pertinent Pages, Etc.*)

		"A Molecular Shift Register Based on Electron Transfer" Hopfield et al., Science, 241, 1998 pgs. 817-820
		"The Design of a Biochip: A Self-Assembling Molecular-Scale Memory Device" Robinson et al., Protein Engineering, Vol. 1, No. 4, 1987, pgs. 295-300

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and no
considered. Include copy of this form with next communication to applicant.

INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

*EXAMINER
INITIALS
THALIEMAN

<div style="text-align: right; margin-bottom: 5px;"> OIE AUG 13 2003 PATE </div>	Docket Number (Optional) UA 02-023	Application Number 10/600,935
Applicant(s) MANSURIPUR et al.		
Filing Date June 20, 2003	Group Art Unit 	

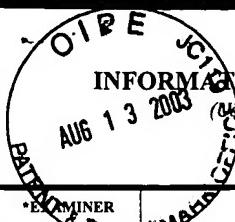
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	"DNA-Templated Assembly and Electrode Attachment of a Conducting Silver Wire" Braun et al., Nature 391, pgs. 775-778, 1998
	"Substituted Polyacetylenes Through the Ring-Opening Metathesis Polymerization (ROMP) of Substituted Cyclooctatertraenes: A Route into Soluble Polyacetylene" Gorman et al., Synthetic Metals 41-43, 1991 pgs. 1033-1038
	"Water-Soluble Ruthenium Alkyldenes: Synthesis, Characterization, and Application of Olefin Metathesis in Protic Solvents" Lynn et al. J Am. Chem. Sci. 2000, 122, 6601-6609
	"Sequence-Specific Detection of Individual DNA Strands Using Engineered Nanopores" Howorka et al., www.nature.com, pgs. 1-10, 2003
	"DNA, Human Memory, and the Storage Technology of the 21st. Century" Mansuripur, Keynote Paper the Universty of Arizona, 29 pgs.
	"Voltage-Driven DNA Translocations Through a Nanopore" Meller et al., Physical Review Letters, Volume 86, No. 15, 2001 pgs. 3435-3438
	"Rapid Nanopore Discrimination Between Single Polynucleotide Molecules" Meller et al., PNAS, Vol. 97, No. 3, 2000, pgs.1079-1084
	"Micorsecond Time-Scale Discrimination Among Polycytidylic Acid, Polyadenylic Acid, and Polyuridylic Acid as Homopolymers or as Segments Within Single RNA Molecules" Akeson et al., Biophysical Journal, Volume 77, 1999, pgs. 3227-3233
	"Characterization of Individual Polynucleotide Molecules Using a Membrane Channel" Kasianowicz et al., Proc. Natl. Acad. Sci. USA, Vol. 93, 1996, pgs. 13770-13773
	"Driven DNA Transport into an Asymmetric Nanometer-Scale Pore" Henrickson et al., Physical Review Letters, Vol. 85, No 14, 2000, pgs. 3057-3060
	"Ion-Beam Sculpting at Nanometre Length Scales" Li et al., Letters to Nature, Vol. 412, 2001, pgs. 166-169
	"Self-Assembling Organic Nanotubes" Bong et al., Organic Nanotubes, 2001, pgs. 988-1011

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



INFORMATION DISCLOSURE CITATION
(Use several sheets if necessary)

Docket Number (Optional) UA 02-023	Application Number 10/600,935
Applicant(s) MANSURIPUR et al.	
Filing Date June 20, 2003	Group Art Unit

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

	"The Optical Properties of Nanoshells" Halas, Optics and Photonics News, 2002, pgs. 26-30
	"Light-Directed, Spatially Addressable Parallel Chemical Synthesis" Fodor et al., Research Article, 1991, pgs. 767-773
	"High Density Synthetic Oligonucleotide Arrays" Lipshutz et al., Vol. 21, supplement pp. 20-24, pg. 7-12
	"Light-Generated Oligonucleotide Arrays for Rapid DNA sequence Analysis" Pease et al., Proc. Natl. Acad. Sci. USA, Vol. 91, 1994, pgs. 5022-5026
	"Molecular Interactions on Microarrays" Southern et al., Department of Biochemistry, University of Oxford, Article, pgs. 1-6
	"Laser and Electron-Beam Induced Growth of Nanoparticles for 2D and 3D Metal Patterning" Stellacci et al., Advanced Materials, 2002, pgs. 134
	"The Double Helix Gets Trapped" Rowell, Optical Tweezers, Biophotonics International, 2002, pgs. 48-51
	"Nanoliter-Volume Discrete Drop Injection and Pumping in Microfabricated Chemical Analysis Systems" Handique et al., Solid-State Sensor and Actuator Workshop Hilton Head Island, South Carolina, 1998, pgs. 346-349
	"The Flow of Wet Water" Article , 41-1 to 41-12
	"Two-Photon Polymerization Initiators for Three-Dimensional Optical Data Storage and Microfabrication" Cumpston et al Nature 398, 1999, pgs. 1-6

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP Section 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.